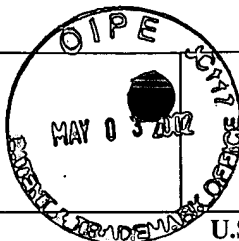


Form PTO-1449 (modified)
List of Patents and Publications
For Applicant's Information
Disclosure Statement
(Use several sheets if necessary)



ATTY. DKT. NO. 5659-06100/TH: 286

SERIAL NO. 09/841,194

APPLICANT: Vinegar, et al.

GROUP: 1764

FILING DATE: April 24, 2001

3672

U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
G9	C1	1,269,747	6/1918	Rogers			
	C2	1,457,479	6/1923	Wolcott			
	C3	1,634,236	6/1927	Ranney			
	C4	2,630,307	3/1953	Martin			
	C5	2,685,930	8/1954	Albaugh			
	C6	2,703,621	3/1955	Ford			
	C7	2,771,954	11/1956	Jenks et al.			
	C8	2,793,696	5/1957	Morse			
	C9	2,890,754	6/1959	Hoffstrom et al.			
	C10	2,890,755	6/1959	Eurenius et al.			
	C11	2,906,340	9/1959	Herzog			
	C12	2,932,352	4/1960	Stegemeier			
	C13	2,958,519	11/1960	Hurley			
	C14	3,010,513	11/1961	Gerner			
	C15	3,010,516	11/1961	Schleicher			
	C16	3,036,632	5/1962	Koch et al.			
	C17	3,044,545	7/1962	Tooke			
	C18	3,061,009	10/1962	Shirley			
	C19	3,062,282	11/1962	Schleicher			
	C20	3,084,919	4/1963	Slater			
	C21	3,113,619	12/1963	Reichle			
	C22	3,116,792	1/1964	Purre			
	C23	3,120,264	2/1964	Barron			
	C24	3,127,935	4/1964	Poettmann et al			
	C25	3,127,936	4/1964	Eurenius			
	C26	3,132,692	5/1964	Marx et al.			
	C27	3,205,944	9/1965	Walton			
	C28	3,233,668	2/1966	Hamilton et al.			
	C29	3,273,640	9/1966	Huntington			
G9	C30	3,275,076	9/1966	Sharp			

RECEIVED
MAY 0 8 2002
TC 1400

RECEIVED
MAY 0 8 2002

GROUP 3600

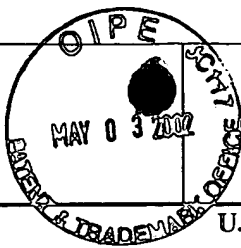
EXAMINER:

George Suchfield

DATE CONSIDERED:

11/20/02

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.



ATTY. DKT. NO. 5659-06100/TH1386

SERIAL NO. 09/841,194

APPLICANT: Vinegar, et al.

GROUP: 1764

FILING DATE: April 24, 2001

U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
69	C31	3,294,167	12/1966	Vogel			
	C32	3,352,355	11/1967	Putman			
	C33	3,379,248	4/1968	Strange			
	C34	3,605,890	9/1971	Holm			
	C35	3,617,471	11/1971	Schlinger et al.			
	C36	3,661,423	5/1972	Garrett			
	C37	3,770,398	11/1973	Abraham et al.			
	C38	3,882,941	5/1975	Pelofsky			
	C39	3,948,319	4/1976	Pritchett			
	C40	3,954,140	5/1976	Hendrick			
	C41	3,986,349	10/1976	Egan			
	C42	3,999,607	12/1976	Pennington et al.			
	C43	4,008,762	2/1977	Fisher et al.			
	C44	4,019,575	4/1977	Pisio et al.			
	C45	4,026,357	5/1977	Redford			
	C46	4,049,053	9/1977	Fisher et al.			
	C47	4,057,293	11/1977	Garrett			
	C48	4,067,390	1/1978	Camacho et al.			
	C49	4,069,868	1/1978	Terry			
	C50	4,084,637	4/1978	Todd			
	C51	4,114,688	9/1978	Terry			
	C52	4,144,935	3/1979	Bridges et al.			
	C53	4,183,405	1/1980	Magnie			
	C54	4,228,854	10/1980	Sacuta			
	C55	4,243,101	1/1981	Gruppung			
	C56	4,277,416	7/1981	Grant			
	C57	4,306,621	12/1981	Boyd et al.			
	C58	4,324,292	4/1982	Jacobs et al.			
69	C59	4,344,483	8/1982	Fisher et al.			

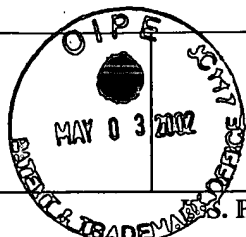
RECEIVED
MAY 08 2002
GROUP 3600

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

Form PTO-1449 (modified)
List of Patents and Publications
For Applicant's Information
Disclosure Statement
(Use several sheets if necessary)



ATTY. DKT. NO. 5659-06100/TH1286

SERIAL NO. 09/841,194

APPLICANT: Vinegar, et al.

GROUP: 1764

FILING DATE: April 24, 2001

U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
69	C60	4,353,418	10/1982	Hoekstra et al.			
	C61	4,384,613	5/1983	Owen et al.			
	C62	4,396,062	8/1983	Iskander			
	C63	4,397,732	8/1983	Hoover et al.			
	C64	4,444,255	4/1984	Geoffrey et al.			
	C65	4,448,251	5/1984	Stine			
	C66	4,448,252	5/1984	Stoddard et al.			
	C67	4,457,365	7/1984	Kasevich et al.			
	C68	4,476,927	10/1984	Riggs			
	C69	4,485,869	12/1984	Sresty et al.			
	C70	4,524,826	6/1985	Savage			
	C71	4,549,396	10/1985	Garwood et al.			
	C72	4,573,530	3/1986	Audeh et al.			
	C73	4,576,231	3/1986	Dowling et al.			
	C74	4,592,423	6/1986	Savage et al.			
	C75	4,608,818	9/1986	Goebel et al.			
	C76	4,637,464	1/1987	Forgac et al.			
	C77	4,651,825	3/1987	Wilson			
	C78	4,662,438	5/1987	Taflove et al.			
	C79	4,662,439	5/1987	Puri			
	C80	4,662,443	5/1987	Puri et al.			
	C81	4,691,771	9/1987	Ware et al.			
	C82	4,704,514	11/1987	Van Edmond et al.			
	C83	4,772,634	9/1988	Farooque			
	C84	4,787,452	11/1988	Jennings, Jr.			
	C85	4,817,711	4/1989	Jeambey			
	C86	4,818,370	4/1989	Gregoli et al.			
	C87	4,928,765	5/1990	Nielson			
	C88	5,064,006	11/1991	Waters et al.			
69	C89	5,082,054	1/1992	Kiamanesh			

RECEIVED
MAY 06 2002
TC 1100

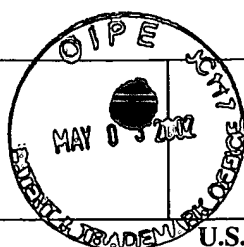
RECEIVED
MAY 08 2002
GROUP 3600

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

Form PTO-1449 (modified)
List of Patents and Publications
For Applicant's Information
Disclosure Statement
(Use several sheets if necessary)



ATTY. DKT. NO. 5659-06100/TH1386

SERIAL NO. 09/841,194

APPLICANT: Vinegar, et al.

GROUP: 1764

FILING DATE: April 24, 2001

U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	INDEXING DATE IF APPROPRIATE
G9	C90	5,082,055	1/1992	Hemsath	I	I	RECEIVED MAY 08 2002 7700
	C91	5,217,076	6/1993	Masek	I	I	
	C92	5,261,490	11/1993	Ebinuma	I	I	
	C93	5,285,846	2/1994	Mohn	I	I	
	C94	5,289,882	3/1994	Moore	I	I	
	C95	5,411,104	5/1995	Stanley	I	I	RECEIVED MAY 08 2002
	C96	5,632,336	5/1997	Notz et al.	I	I	
	C97	5,713,415	2/1998	Bridges	I	I	GROUP 3600
	C98	6,328,104	12/2001	Graue	I	I	
	D1	3,149,670	9/1964	Grant	I	I	
	D2	3,380,913	4/1968	Henderson	I	I	
	D3	3,794,116	2/1974	Higgins	I	I	
	D4	4,197,911	4/1980	Anada	I	I	
	D5	4,412,124	10/1983	Kobayashi	I	I	
G9	D8	3,316,962	5/1967	Lange	I	I	

FOREIGN PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
G9	C99	2,015,460	10/1991	CA	I	I	
	C100	940558 A1	9/1999	EP	I	I	
	C101	01/81723 A1	11/2001	WO	I	I	
	C102	01/81505 A1	11/2001	WO	I	I	
	D6	1,165,361	4/1984	CA	I	I	
G9	D7	1,168,283	5/1994	CA	I	I	

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

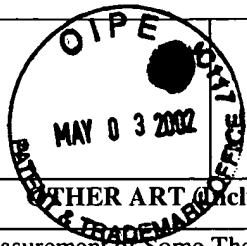
G9	C103	Appalachian Coals: Potential Reservoirs for Sequestering Carbon Dioxide Emissions from Power Plants While Enhancing CBM Production; C.W. Byer, et al., Proceedings of the International Coalbed Methane Symposium.					
G9	C104	The Pros and Cons of Carbon Dioxide Dumping Global Warming Concerns Have Stimulated a Search for Carbon Sequestration Technologies; C. Hanisch, Environmental Science and Technology, American Chemical Society, Easton, PA.					
G9	C105	Pilot Test Demonstrates How Carbon Dioxide Enhances Coal Bed Methane Recovery, Lanny Schoeling and Michael McGovern, Petroleum Technology Digest, September 2000, p. 14-15.					

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

Form PTO-1449 (modified)
List of Patents and Publications
For Applicant's Information
Disclosure Statement
(Use several sheets if necessary)



ATTY. DKT. NO. 5659-06100/TH 986

SERIAL NO. 09/841,194

APPLICANT: Vinegar, et al.

GROUP: 1764

3692

FILING DATE: April 24, 2001

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

69	C106	In Situ Measurement of Some Thermoporoeleastic Parameters of a Granite, Berchenko et al., Poromechanics, A Tribute to Maurice Biot, 1998, p. 545-550.
69	C107	Conversion characteristics of selected Canadian coals based on hydrogenation and pyrolysis experiments, W. Kalkreuth, C. Roy, and M. Steller. Geological Survey of Canada, Paper 89-8, 1989, pages 108-114, XP001014535
	D9	Passcy et al., US Patent Application Publication 2001/0049342 A1, December 6, 2001.
69	D10	Tar and Pitch, G. Collin and H. Hoeke. Ullmann's Encyclopedia of Industrial Chemistry, Vol. A 26, 1995, p. 91-127.

RECEIVED
MAY 06 2002
TC 1/UP
RECEIVED
MAY 08 2002
GROUP 3600

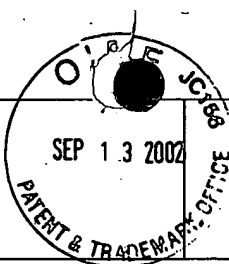
EXAMINER:

George Suchfield

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

Form PTO-1449 (modified)
List of Patents and Publications
For Applicant's Information
Disclosure Statement
(Use several sheets if necessary)



ATTY. DKT. NO. 5659-06100/TH1986

SERIAL NO. 09/841,194

APPLICANT: Vinegar et al.

GROUP: 1764

FILING DATE: 4/24/01

3672

U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
GS	E2	3,922,148	Nov-1975	Child			
	E4	5,020,596	Jun-1991	Hemsath			
	E5	5,229,102	Jul-1993	Minet et al.			
	E6	5,316,664	May-1994	Gregoli et al.			
	E7	5,366,012	Nov-1994	Lohbeck			
	E8	5,541,517	Jul-1996	Hartmann et al.			
	E9	5,861,137	Jan-1999	Edlund			
PTC EIMS	E10	6,354,373	Mar-2001	Vercaemer et al.			
	E15	4,463,807	Aug-1984	Stoddard et al.			
	F1	3,310,109	Mar-1967	J. W. Marx et al.			
	F2	4,252,191	Feb-1981	Pusch et al.			
	G1	3,675,715	Jul-1972	Speller, Jr.			
	G2	3,809,159	May-1974	Young et al.			
	G5	3,766,982	Oct-1973	Justheim			
	G7	3,599,714	Aug-71	Messman et al.			
	G8	4,043,393	Aug-77	Fisher et al.			
GS	H1	4,093,025	June-78	Terry			

RECEIVED
SEP 17 2002
GROUP 3600

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

GS	E11	Coal, Encyclopedia of Chemical Technology, Kirk, R.E., Kroschwitz, J.I., Othmer, D.F., Wiley, New York, 4th edition 1991, Vol. 6, pp. 423-488.
	E12	Cortez et al., UK Patent Application GB 2,068,014 A, Date of Publication: August 5, 1981.
	E13	Wellington et al., US Patent Application 60/273,354, Filed March 5, 2001.
	E14	The VertiTrak System Brochure, Baker Hughes, INT-01-1307A4, 2001, 8 pages.
	F3	Thermal, Mechanical, and Physical Properties of Selected Bituminous Coals and Cokes, J. M. Singer and R. P. Tye, U Department of Interior, Bureau of Mines (1979) Government Report No. 8364.
	G3	Rogers, Rudy E. "Coalbed Methane: Principles and Practice" Prentice-Hall, Inc. 1994, pp. 68-97.
	G4	Department of Energy Coal Sample Bank and Database http://www.energy.psu.edu/arg/doesb.htm
	G6	Rogers, Rudy E. "Coalbed Methane: Principles and Practice" Prentice-Hall, Inc. 1994, pp. 164-165.
	G9	Hyne, Norman J. Geology for Petroleum Exploration, Drilling, and Production. McGraw-Hill Book Company, 1984, 264.
GS	H2	Hobson, G.D., Modern Petroleum Technology, Halsted Press, Applied Science Publishers LTD. 1973, pp. 786, 787

EXAMINER:

George Suchfield

DATE CONSIDERED:

11/20/02

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent own